

**STOP PCT**

Docket No. 263365US0X PCT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Mylene WEILL, et al.

SERIAL NO: 10/518,072

GAU:

FILED: December 16, 2004

EXAMINER:

FOR: NOVEL ACETYLCHOLINESTERASE GENE RESPONSIBLE FOR INSECTICIDE RESISTANCE AND APPLICATIONS THEREOF

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references cited in the International Search Report and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /NN/

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 263365US0X PCT		SERIAL NO. 10/518,072	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Mylene WEILL, et al.			
				FILING DATE December 16, 2004		GROUP	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AA	GAO, J.R. et al. "Molecular cloning and characterization of a greenbug ( <i>Schizaphis graminum</i> ) cDNA encoding acetylcholinesterase possibly evolved from a duplicate gene lineage", <i>Insect Biochemistry and Molecular Biology</i> , vol. 32, no. 7, pages 765-775 2002					
✓	AB	FORT, P.P. "Aedes albopictus partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438598, XP002234930 2002					
	AC	FORT, P.P. "Anopheles albimanus partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438608, XP002234938 2002					
	AD	FORT, P.P. "Anopheles darlingi partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438599, XP002234931 2002					
	AE	FORT, P.P. "Anopheles funestus partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438604, XP002234933 2002					
	AF	FORT, P.P. "Anopheles arabiensis partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438603, XP002234934 2002					
	AG	FORT, P.P. "Anopheles sundanicus partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438600, XP002234932 2002					
	AH	FORT, P.P. "Anopheles pseudopunctipennis partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438605, XP002234936 2002					
	AI	FORT, P.P. "Anopheles moucheti partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438602, XP002234937 2002					
	AJ	FORT, P.P. "Anopheles sacharovi partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438606, XP002234939 2002					
	AK	FORT, P.P. "Anopheles stephensi partial achE1 gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ438607, XP002234940 2002					
	AL	FORT, P.P. "Anopheles minimus partial achE1 gene for acetylcholinesterase" retrieved from EBI, Database accession no. AJ438601, XP002234935 2002					
	AM	FORT, P.P. "Anopheles nili partial achE1 gene for acetylcholinesterase" retrieved from EBI, Database accession no. AJ438609, XP002234941 2002					
	AN	MALCOLM, C.A. et al. "A sex-linked Ace gene, not linked to insensitive acetylcholinesterase-mediated insecticide resistance in <i>Culex pipiens</i> ", <i>Insect Molecular Biology</i> , vol. 7, no. 2, pages 107-120, XP002234923 1998					
	AO	BOURGUET, Denis et al. "Determination of Ace.1 Genotypes in Single Mosquitoes: Toward an Ecumenical Biochemical Test", <i>Pesticide Biochemistry and Physiology</i> , vol. 55, no. 2, pages 122-128, XP002234924 1996					
	AP	MUTERO, Annick et al. "Resistance-associated point mutations in insecticide-insensitive acetylcholinesterase", <i>Proc. Natl. Acad. Sci.</i> , vol. 91, no. 13, pages 5922-5926, XP002234925 1994					
	AQ	HOLT, R.A. et al. "17000687086124 A.Gam.ad.cDNA.blood1 Anopheles gambiae cDNA clone 19600449729584 5', mRNA sequence", retrieved from EBI, Database accession no. BM608195, XP002234942 2002					
	AR	ANTHONY, Nicola et al. "Cloning, sequencing and functional expression of an acetylcholinesterase gene from the yellow fever mosquito <i>Aedes aegypti</i> ", <i>FEBS Letters</i> , vol. 368, pages 461-465, XP002234926 1995					
	AS	BOURGUET, Denis et al. "Analysis of Molecular Forms and Pharmacological Properties of Acetylcholinesterase in Several Mosquito Species", <i>Neurochem. Int.</i> , vol. 31, no.1, pages 65-72, XP002234927 1997				<input checked="" type="checkbox"/> Additional References sheet(s) attached	
Examiner				/Nashaat Nashed/ (02/06/2010)		Date Considered	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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✓	AT	BOURGUET, Denis et al. "Existence of Two Acetylcholinesterases in the Mosquito <i>Culex pipiens</i> (Diptera: Culicidae)", <i>Journal of Neurochemistry</i> , vol. 67, no. 5, pages 2115-2123, XP008013364 1996					
	AU	WALSH, Sinead B. et al. "Identification and characterization of mutations in housefly ( <i>Musca domestica</i> ) acetylcholinesterase involved in insecticide resistance", <i>Biochem. J.</i> , vol. 359, pages 175-181, XP002234928 2001					
	AV	BOURGUET, Denis et al. "Duplication of the <i>Ace.1</i> Locus in <i>Culex pipiens</i> Mosquitoes from the Caribbean", <i>Biochemical Genetics</i> , vol. 34, no. 9-10, pages 351-362, XP008015132 1996					
	AW	WEILL, Mylene et al. "A novel acetylcholinesterase gene in mosquitoes codes for the insecticide target and is non-homologous to the <i>ace</i> gene in <i>Drosophila</i> ", <i>Proc. R. Soc. Lond. B</i> , vol. 269, no. 1504, pages 2007-2016, XP008015105 2002					
	AX	WEILL, Mylene et al. "Comparative Genomics: Insecticide resistance in mosquito vectors", <i>Nature</i> , vol. 423, pages 136-137, XP002269568 2003					
	AY	LI, Fei et al. "Two different genes encoding acetylcholinesterase existing in cotton aphid ( <i>Aphis gossypii</i> )", <i>Genome</i> , vol. 45, no. 6, pages 1134-1141, XP008013411 2002					
	AZ	FORT, P.P. "Anopheles gambiae partial <i>achE1</i> gene for acetylcholinesterase, exons 4-9", retrieved from EBI, Database accession no. AJ488492, XP002234943 2002					
	AAA	FORT, P.P. "Culex pipiens partial <i>achE1</i> gene for acetylcholinesterase, strain SLAB", retrieved from EBI, Database accession no. AJ428047, XP002234945 2002					
	AAB	FORT, P.P. "Aedes aegypti partial <i>achE1</i> gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ428049, XP002234946 2002					
	AAC	FORT, P.P. "Culex pipiens partial <i>achE1</i> gene for acetylcholinesterase", retrieved from EBI, Database accession no. AJ428048, XP002234947 2002					
	AAD						
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Examiner				/Nashaat Nashed/ (02/06/2010)		Date Considered	
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